

| 7.1 Chemical Analysis Report Verification Record Form

Report Identification: _____		
Data Validation Guidelines/Procedures Used: _____		
Requester: _____ Date: _____		
Required Verification Report Items		
<input type="radio"/> Chain-of-Custody	<input type="radio"/> Applicable Limits List	<input type="radio"/> Analysis Data Report

To be completed by the reviewer

Reviewer: _____	
Yes	No
<input type="radio"/> <input type="radio"/>	1. Is the Chain-of-Custody, Applicable Limits Listing, Analysis Data Report complete?
<input type="radio"/> <input type="radio"/>	2. Were all of the analyses requested completed?
<input type="radio"/> <input type="radio"/>	3. Is there a signature by a Laboratory official on the Analysis Data report which verifies that data validation has been completed by analysis laboratory?
<input type="radio"/> <input type="radio"/>	4. If technical judgments are present in the Analysis Data report are they acceptable based on the reviewer's professional judgment?
<input type="radio"/> <input type="radio"/>	5. Are questions 1 to 4 all Yes? If No, refer this package to the ES&H Chemist to continue the review at step 9.
<input type="radio"/> <input type="radio"/>	6. Does a regulatory or program limit apply to this analysis? If No, check N/A in step 7 and continue to step 8.
<input type="radio"/> <input type="radio"/>	7. If answer to question 6 is "YES" is the data below the regulatory or program limit or within the acceptable range? If the data is above the acceptable limit or outside the acceptable range, refer this report package to the Program Lead to continue the review at step 11.
<input type="radio"/> N/A	
<input type="radio"/> <input type="radio"/>	8. Is the above review complete? If Yes, sign and date this form in step 12 and return this report package to the requester. If No, refer this package to the ES&H Chemist to continue the review at step 9.

9. Summary of action to be completed by ES&H Chemist (or their designee) when required

Yes No

O O

10. Is the above review and report package acceptable? If Yes, sign and date this form in step 12 and return this report package to the requester. If No, refer this report package to the Program Lead to continue the review at step 12.

11. Summary of action to be completed by Funtional Area Lead (or designee) when required

12. Signature: _____ Date: _____

Return the report package to the requester



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16 November 2016

ELAP Certificates 1551, 2728, and 2922

Sandia National Laboratories

John Chavarria

Accounts Payable MS1385 / PO Box 5800

Albuquerque, NM 87185

RE: CA Industrial Storm Water Permit

Work Order: 16K0044

Enclosed are the results of analyses for samples received by the laboratory on 10/31/16 20:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Sheri L. Speaks

Project Manager

In the California Industrial General Permit (IGP) 2014-0057-DWQ for storm water monitoring, effective July 1, 2015, there are 21 contaminants that have been assigned NAL (Numeric Action Level) values, both annual and instantaneous.

For annual NALs, an exceedance occurs when the average of all analytical results from all samples taken at a facility during a reporting year for a given parameter exceeds an annual NAL value listed in Table 2 of the General Permit. For instantaneous maximum NALs, an exceedance occurs when two or more analytical results from samples taken for any parameter within a reporting year exceed the instantaneous maximum NAL value (for TSS and O&G), or are outside of the instantaneous maximum NAL range (for pH) listed in Table 2. Table 2 is attached here for your review.



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TABLE 2: Parameter NAL Values, Test Methods, and Reporting Units

PARAMETER	TEST METHOD	REPORTING UNITS	ANNUAL NAL	INSTANTANEOUS MAXIMUM NAL
pH*	See Section XI.C.2	pH units	N/A	Less than 6.0 Greater than 9.0
Suspended Solids (TSS)*, Total	SM 2540-D	mg/L	100	400
Oil & Grease (O&G)*, Total	EPA 1664A	mg/L	15	25
Zinc, Total (H)	EPA 200.8	mg/L	0.26**	
Copper, Total (H)	EPA 200.8	mg/L	0.0332**	
Cyanide, Total	SM 4500-CN C, D, or E	mg/L	0.022	
Lead, Total (H)	EPA 200.8	mg/L	0.262**	
Chemical Oxygen Demand (COD)	SM 5220C	mg/L	120	
Aluminum, Total	EPA 200.8	mg/L	0.75	
Iron, Total	EPA 200.7	mg/L	1.0	
Nitrate + Nitrite Nitrogen	SM 4500-NO3- E	mg/L as N	0.68	
Total Phosphorus	SM 4500-P B+E	mg/L as P	2.0	
Ammonia (as N)	SM 4500-NH3 B+ C or E	mg/L	2.14	
Magnesium, total	EPA 200.7	mg/L	0.064	
Arsenic, Total (c)	EPA 200.8	mg/L	0.15	
Cadmium, Total (H)	EPA 200.8	mg/L	0.0053**	
Nickel, Total (H)	EPA 200.8	mg/l	1.02**	
Mercury, Total	EPA 245.1	mg/L	0.0014	
Selenium, Total	EPA 200.8	mg/L	0.005	
Silver, Total (H)	EPA 200.8	mg/L	0.0183**	
Biochemical Oxygen Demand (BOD)	SM 5210B	mg/L	30	

SM – Standard Methods for the Examination of Water and Wastewater, 18th edition

EPA – U.S. EPA test methods

(H) – Hardness dependent

* Minimum parameters required by this General Permit

**The NAL is the highest value used by U.S. EPA based on their hardness table in the 2008 MSGP.

from the NPDES General Permit for Storm Water Discharges Associated with Industrial Activities

General Order 2014-0057-DWQ



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Sandia National Laboratories

Accounts Payable MS1385 / PO Box 5800

Albuquerque NM, 87185

Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ST-5-102716 Station 5	16K0044-01	Water	10/27/16 15:37	10/31/16 20:50
ST-11-102716 Station 11	16K0044-02	Water	10/27/16 15:53	10/31/16 20:50
ST-13-102716 Station 13	16K0044-03	Water	10/27/16 15:59	10/31/16 20:50
ST-15-102716 Station 15	16K0044-04	Water	10/27/16 15:46	10/31/16 20:50
ST-20-102716 Station 20	16K0044-05	Water	10/27/16 16:22	10/31/16 20:50
ST-Q-102716 Station Q	16K0044-06	Water	10/27/16 15:59	10/31/16 20:50
ST-R-102716 Station R	16K0044-07	Water	10/27/16 15:59	10/31/16 20:50



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Albuquerque NM, 87185

Project Manager: John Chavarria
Project: CA Industrial Storm Water Permit
Project Number: ST-102716

Reported:
11/16/16 11:24

ST-5-102716 Station 5
16K0044-01(Water)

Analyte	MDL	RL	NAL	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Metals by EPA 200 Series Methods

Iron	0.020	0.10	1.0	3.1	mg/L	1	AK63307	11/08/16 10:58	11/15/16 14:08	EPA 200.7	MAM	
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Metals by EPA Method 200.8 ICP/MS

Aluminum	0.0080	0.050	0.75	3.0	mg/L	4	AK63359	11/09/16 12:32	11/10/16 22:53	EPA 200.8	MMY	
Lead	0.000080	0.0050	0.26	0.0039	mg/L	4	AK63359	11/09/16 12:32	11/10/16 22:53	EPA 200.8	MMY	J
Zinc	0.0020	0.050	0.26	0.20	mg/L	4	AK63359	11/09/16 12:32	11/10/16 22:53	EPA 200.8	MMY	

Conventional Chemistry Parameters by APHA/EPA Methods

Chemical Oxygen Demand	9.0	50	120	110	mg/L	1	AK63296	11/08/16 10:04	11/11/16 14:30	SM5220D	EV	
Oil & Grease (HEM)	1.4	5.0	15	8.6	mg/L	1	AK63468	11/12/16 06:30	11/12/16 14:26	EPA 1664A	STS	
Total Suspended Solids	1.0	1.0	100	40	mg/L	1	AK63157	11/03/16 13:45	11/07/16 11:27	SM2540D	MRL	
Nitrate + Nitrite as N	0.040	0.20	0.68	0.37	mg/L	1	AK63303	11/09/16 08:30	11/10/16 08:50	SM4500-NO3 E	MRL	
Phosphorus, total	0.10	0.20	2.0	0.57	mg/L	5	AK63372	11/10/16 06:15	11/11/16 10:17	SM4500-P E	SMS	



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Project Manager: John Chavarria
Project: CA Industrial Storm Water Permit
Project Number: ST-102716

Reported:
11/16/16 11:24

ST-11-102716 Station 11
16K0044-02(Water)

Analyte	MDL	RL	NAL	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Metals by EPA 200 Series Methods

Iron	0.020	0.10	1.0	0.47	mg/L	1	AK63307	11/08/16 10:58	11/15/16 14:14	EPA 200.7	MAM	
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Metals by EPA Method 200.8 ICP/MS

Aluminum	0.0080	0.050	0.75	0.38	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:08	EPA 200.8	MMY	
Lead	0.000080	0.0050	0.26	0.0011	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:08	EPA 200.8	MMY	J
Zinc	0.0020	0.050	0.26	0.092	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:08	EPA 200.8	MMY	

Conventional Chemistry Parameters by APHA/EPA Methods

Chemical Oxygen Demand	9.0	50	120	20	mg/L	1	AK63296	11/08/16 10:04	11/11/16 14:30	SM5220D	EV	J
Oil & Grease (HEM)	1.4	5.0	15	2.1	mg/L	1	AK63468	11/12/16 06:30	11/12/16 14:26	EPA 1664A	STS	J
Total Suspended Solids	1.0	1.0	100	3.9	mg/L	1	AK63157	11/03/16 13:45	11/07/16 11:27	SM2540D	MRL	
Nitrate + Nitrite as N	0.040	0.20	0.68	0.28	mg/L	1	AK63303	11/09/16 08:30	11/10/16 08:50	SM4500-NO3 E	MRL	
Phosphorus, total	0.020	0.040	2.0	0.13	mg/L	1	AK63372	11/10/16 06:15	11/11/16 10:17	SM4500-P E	SMS	



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Albuquerque NM, 87185

Project Manager: John Chavarria
Project: CA Industrial Storm Water Permit
Project Number: ST-102716

Reported:
11/16/16 11:24

ST-13-102716 Station 13
16K0044-03(Water)

Analyte	MDL	RL	NAL	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Metals by EPA 200 Series Methods

Iron	0.020	0.10	1.0	0.86	mg/L	1	AK63307	11/08/16 10:58	11/15/16 14:19	EPA 200.7	MAM	
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Metals by EPA Method 200.8 ICP/MS

Aluminum	0.0080	0.050	0.75	0.73	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:22	EPA 200.8	MMY	
Lead	0.000080	0.0050	0.26	0.0023	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:22	EPA 200.8	MMY	J
Zinc	0.0020	0.050	0.26	0.15	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:22	EPA 200.8	MMY	

Conventional Chemistry Parameters by APHA/EPA Methods

Chemical Oxygen Demand	9.0	50	120	18	mg/L	1	AK63296	11/08/16 10:04	11/11/16 14:30	SM5220D	EV	J
Oil & Grease (HEM)	1.4	5.0	15	2.6	mg/L	1	AK63468	11/12/16 06:30	11/12/16 14:26	EPA 1664A	STS	J
Total Suspended Solids	1.0	1.0	100	11	mg/L	1	AK63157	11/03/16 13:45	11/07/16 11:27	SM2540D	MRL	
Nitrate + Nitrite as N	0.040	0.20	0.68	0.41	mg/L	1	AK63303	11/09/16 08:30	11/10/16 08:50	SM4500-NO3 E	MRL	
Phosphorus, total	0.020	0.040	2.0	0.18	mg/L	1	AK63372	11/10/16 06:15	11/11/16 10:17	SM4500-P E	SMS	



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Sandia National Laboratories
Accounts Payable MS1385 / PO Box 5800
Albuquerque NM, 87185

Project Manager: John Chavarria
Project: CA Industrial Storm Water Permit
Project Number: ST-102716

Reported:
11/16/16 11:24

ST-15-102716 Station 15
16K0044-04(Water)

Analyte	MDL	RL	NAL	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Metals by EPA 200 Series Methods

Iron	0.020	0.10	1.0	0.66	mg/L	1	AK63307	11/08/16 10:58	11/15/16 14:35	EPA 200.7	MAM	
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Metals by EPA Method 200.8 ICP/MS

Aluminum	0.0080	0.050	0.75	0.59	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:37	EPA 200.8	MMY	
Lead	0.000080	0.0050	0.26	0.0019	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:37	EPA 200.8	MMY	J
Zinc	0.0020	0.050	0.26	0.25	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:37	EPA 200.8	MMY	

Conventional Chemistry Parameters by APHA/EPA Methods

Chemical Oxygen Demand	9.0	50	120	16	mg/L	1	AK63296	11/08/16 10:04	11/11/16 14:30	SM5220D	EV	J
Oil & Grease (HEM)	1.4	5.0	15	4.9	mg/L	1	AK63468	11/12/16 06:30	11/12/16 14:26	EPA 1664A	STS	J
Total Suspended Solids	1.0	1.0	100	13	mg/L	1	AK63157	11/03/16 13:45	11/07/16 11:27	SM2540D	MRL	
Nitrate + Nitrite as N	0.040	0.20	0.68	0.094	mg/L	1	AK63303	11/09/16 08:30	11/10/16 08:50	SM4500-NO3 E	MRL	J
Phosphorus, total	0.020	0.040	2.0	0.11	mg/L	1	AK63372	11/10/16 06:15	11/11/16 10:17	SM4500-P E	SMS	



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Albuquerque NM, 87185

Project Manager: John Chavarria
Project: CA Industrial Storm Water Permit
Project Number: ST-102716

Reported:
11/16/16 11:24

ST-20-102716 Station 20
16K0044-05(Water)

Analyte	MDL	RL	NAL	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Metals by EPA 200 Series Methods

Iron	0.020	0.10	1.0	0.35	mg/L	1	AK63307	11/08/16 10:58	11/15/16 14:40	EPA 200.7	MAM	
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Metals by EPA Method 200.8 ICP/MS

Aluminum	0.0080	0.050	0.75	0.24	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:52	EPA 200.8	MMY	
Lead	0.000080	0.0050	0.26	0.00072	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:52	EPA 200.8	MMY	J
Zinc	0.0020	0.050	0.26	0.095	mg/L	4	AK63359	11/09/16 12:32	11/10/16 23:52	EPA 200.8	MMY	

Conventional Chemistry Parameters by APHA/EPA Methods

Chemical Oxygen Demand	9.0	50	120	49	mg/L	1	AK63296	11/08/16 10:04	11/11/16 14:30	SM5220D	EV	J
Oil & Grease (HEM)	1.4	5.0	15	3.1	mg/L	1	AK63468	11/12/16 06:30	11/12/16 14:26	EPA 1664A	STS	J
Total Suspended Solids	1.0	1.0	100	7.0	mg/L	1	AK63157	11/03/16 13:45	11/07/16 11:27	SM2540D	MRL	
Nitrate + Nitrite as N	0.040	0.20	0.68	0.30	mg/L	1	AK63303	11/09/16 08:30	11/10/16 08:50	SM4500-NO3 E	MRL	
Phosphorus, total	0.020	0.040	2.0	0.22	mg/L	1	AK63372	11/10/16 06:15	11/11/16 10:17	SM4500-P E	SMS	



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Albuquerque NM, 87185

Project Manager: John Chavarria
Project: CA Industrial Storm Water Permit
Project Number: ST-102716

Reported:
11/16/16 11:24

ST-Q-102716 Station Q
16K0044-06(Water)

Analyte	MDL	RL	NAL	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Metals by EPA 200 Series Methods

Iron	0.020	0.10	1.0	0.67	mg/L	1	AK63307	11/08/16 10:58	11/15/16 14:46	EPA 200.7	MAM	
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Metals by EPA Method 200.8 ICP/MS

Aluminum	0.0080	0.050	0.75	0.59	mg/L	4	AK63359	11/09/16 12:32	11/11/16 00:07	EPA 200.8	MMY	
Lead	0.000080	0.0050	0.26	0.0016	mg/L	4	AK63359	11/09/16 12:32	11/11/16 00:07	EPA 200.8	MMY	J
Zinc	0.0020	0.050	0.26	0.13	mg/L	4	AK63359	11/09/16 12:32	11/11/16 00:07	EPA 200.8	MMY	

Conventional Chemistry Parameters by APHA/EPA Methods

Chemical Oxygen Demand	9.0	50	120	57	mg/L	1	AK63296	11/08/16 10:04	11/11/16 14:30	SM5220D	EV	
Oil & Grease (HEM)	1.4	5.0	15	ND	mg/L	1	AK63468	11/12/16 06:30	11/12/16 14:26	EPA 1664A	STS	U
Total Suspended Solids	1.0	1.0	100	12	mg/L	1	AK63157	11/03/16 13:45	11/07/16 11:27	SM2540D	MRL	
Nitrate + Nitrite as N	0.040	0.20	0.68	0.49	mg/L	1	AK63303	11/09/16 08:30	11/10/16 08:50	SM4500-NO3 E	MRL	
Phosphorus, total	0.020	0.040	2.0	0.18	mg/L	1	AK63372	11/10/16 06:15	11/11/16 10:17	SM4500-P E	SMS	



alpha

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Albuquerque NM, 87185

Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

ST-R-102716 Station R

16K0044-07(Water)

Analyte	MDL	RL	NAL	Result	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
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Metals by EPA 200 Series Methods

Iron	0.020	0.10	1.0	ND	mg/L	1	AK63307	11/08/16 10:58	11/15/16 12:13	EPA 200.7	MAM	U
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Metals by EPA Method 200.8 ICP/MS

Aluminum	0.0080	0.050	0.75	ND	mg/L	4	AK63359	11/09/16 12:32	11/11/16 00:21	EPA 200.8	MMY	U
Lead	0.000080	0.0050	0.26	0.00011	mg/L	4	AK63359	11/09/16 12:32	11/11/16 00:21	EPA 200.8	MMY	J
Zinc	0.0020	0.050	0.26	0.0074	mg/L	4	AK63359	11/09/16 12:32	11/11/16 00:21	EPA 200.8	MMY	J

Conventional Chemistry Parameters by APHA/EPA Methods

Chemical Oxygen Demand	9.0	50	120	ND	mg/L	1	AK63296	11/08/16 10:04	11/11/16 14:30	SM5220D	EV	U
Oil & Grease (HEM)	1.4	5.0	15	ND	mg/L	1	AK63468	11/12/16 06:30	11/12/16 14:26	EPA 1664A	STS	U
Total Suspended Solids	1.0	1.0	100	ND	mg/L	1	AK63157	11/03/16 13:45	11/07/16 11:27	SM2540D	MRL	U
Nitrate + Nitrite as N	0.040	0.20	0.68	ND	mg/L	1	AK63303	11/09/16 08:30	11/10/16 08:50	SM4500-NO3 E	MRL	U
Phosphorus, total	0.020	0.040	2.0	ND	mg/L	1	AK63372	11/10/16 06:15	11/11/16 10:17	SM4500-P E	SMS	U



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Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

Sandia National Laboratories

Accounts Payable MS1385 / PO Box 5800

Albuquerque NM, 87185

Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

Metals by EPA 200 Series Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK63307 - Metals Digest											
Blank (AK63307-BLK1)						Prepared: 11/08/16 Analyzed: 11/15/16					
Iron	ND	0.020	0.10	mg/L							U
LCS (AK63307-BS1)						Prepared: 11/08/16 Analyzed: 11/15/16					
Iron	1.76	0.020	0.10	mg/L	1.70		104	85-115			
Duplicate (AK63307-DUP1)						Source: 16K0044-07 Prepared: 11/08/16 Analyzed: 11/15/16					
Iron	ND	0.020	0.10	mg/L		ND			20		U
Matrix Spike (AK63307-MS1)						Source: 16K0044-07 Prepared: 11/08/16 Analyzed: 11/15/16					
Iron	1.82	0.020	0.10	mg/L	1.70	ND	107	70-130			
Matrix Spike (AK63307-MS2)						Source: 16K0023-01 Prepared: 11/08/16 Analyzed: 11/15/16					
Iron	1.86	0.020	0.10	mg/L	1.70	0.0617	106	70-130			
Matrix Spike Dup (AK63307-MSD1)						Source: 16K0044-07 Prepared: 11/08/16 Analyzed: 11/15/16					
Iron	1.78	0.020	0.10	mg/L	1.70	ND	105	70-130	1.74	20	



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Sandia National Laboratories

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Albuquerque NM, 87185

Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

Metals by EPA Method 200.8 ICP/MS - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AK63359 - EPA 200.8

Blank (AK63359-BLK1)

Prepared: 11/09/16 Analyzed: 11/10/16

Aluminum	ND	0.0020	0.050	mg/L							U
Lead	ND	0.000020	0.0050	mg/L							U
Zinc	0.000670	0.00050	0.050	mg/L							J

LCS (AK63359-BS1)

Prepared: 11/09/16 Analyzed: 11/10/16

Zinc	0.101	0.00050	0.050	mg/L	0.100		101	85-115			
Aluminum	0.554	0.0020	0.050	mg/L	0.520		107	85-115			
Lead	0.0208	0.000020	0.0050	mg/L	0.0200		104	85-115			

Duplicate (AK63359-DUP1)

Source: 16K0046-01

Prepared: 11/09/16 Analyzed: 11/10/16

Lead	ND	0.000080	0.0050	mg/L		ND				20	U
Aluminum	ND	0.0080	0.050	mg/L		ND				20	U
Zinc	0.00453	0.0020	0.050	mg/L		0.00434			4.25	20	J



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Albuquerque NM, 87185

Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AK63157 - General Preparation											
Blank (AK63157-BLK1)			Prepared: 11/03/16 Analyzed: 11/07/16								
Total Suspended Solids	ND	1.0	1.0	mg/L							U
Duplicate (AK63157-DUP1)			Source: 16K0001-01			Prepared: 11/03/16 Analyzed: 11/07/16					
Total Suspended Solids	39.5	1.0	1.0	mg/L		44.2			11.1	30	
Duplicate (AK63157-DUP2)			Source: 16K0068-03			Prepared: 11/03/16 Analyzed: 11/07/16					
Total Suspended Solids	121	1.0	1.0	mg/L		107			12.5	30	
Batch AK63296 - General Preparation											
Blank (AK63296-BLK1)			Prepared: 11/08/16 Analyzed: 11/11/16								
Chemical Oxygen Demand	ND	9.0	50	mg/L							U
LCS (AK63296-BS1)			Prepared: 11/08/16 Analyzed: 11/11/16								
Chemical Oxygen Demand	406	9.0	50	mg/L	400		101	85-115			
LCS Dup (AK63296-BSD1)			Prepared: 11/08/16 Analyzed: 11/11/16								
Chemical Oxygen Demand	403	9.0	50	mg/L	400		101	85-115	0.544	20	
Duplicate (AK63296-DUP1)			Source: 16J2703-01			Prepared: 11/08/16 Analyzed: 11/11/16					
Chemical Oxygen Demand	ND	9.0	50	mg/L		ND				20	U
Matrix Spike (AK63296-MS1)			Source: 16J2703-01			Prepared: 11/08/16 Analyzed: 11/11/16					
Chemical Oxygen Demand	412	9.0	50	mg/L	400	ND	103	85-115			
Matrix Spike Dup (AK63296-MSD1)			Source: 16J2703-01			Prepared: 11/08/16 Analyzed: 11/11/16					
Chemical Oxygen Demand	410	9.0	50	mg/L	400	ND	102	85-115	0.535	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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Albuquerque NM, 87185

Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AK63303 - General Preparation

Blank (AK63303-BLK1)

Prepared: 11/09/16 Analyzed: 11/10/16

Nitrate + Nitrite as N	ND	0.040	0.20	mg/L							U
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LCS (AK63303-BS1)

Prepared: 11/09/16 Analyzed: 11/10/16

Nitrate + Nitrite as N	0.406	0.040	0.20	mg/L	0.400		101	85-115			
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LCS Dup (AK63303-BSD1)

Prepared: 11/09/16 Analyzed: 11/10/16

Nitrate + Nitrite as N	0.406	0.040	0.20	mg/L	0.400		101	85-115	0.00	15	
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Matrix Spike (AK63303-MS1)

Source: 16K0041-01

Prepared: 11/09/16 Analyzed: 11/10/16

Nitrate + Nitrite as N	0.488	0.040	0.20	mg/L	0.400	0.110	94.5	80-120			
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Matrix Spike Dup (AK63303-MSD1)

Source: 16K0041-01

Prepared: 11/09/16 Analyzed: 11/10/16

Nitrate + Nitrite as N	0.491	0.040	0.20	mg/L	0.400	0.110	95.1	80-120	0.503	15	
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Batch AK63372 - General Prep

Blank (AK63372-BLK1)

Prepared: 11/10/16 Analyzed: 11/11/16

Phosphorus, total	ND	0.020	0.040	mg/L							U
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LCS (AK63372-BS1)

Prepared: 11/10/16 Analyzed: 11/11/16

Phosphorus, total	0.197	0.020	0.040	mg/L	0.200		98.6	85-115			
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Duplicate (AK63372-DUP1)

Source: 16K0044-07

Prepared: 11/10/16 Analyzed: 11/11/16

Phosphorus, total	ND	0.020	0.040	mg/L		ND				20	U
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Matrix Spike (AK63372-MS1)

Source: 16K0044-07

Prepared: 11/10/16 Analyzed: 11/11/16

Phosphorus, total	0.191	0.020	0.040	mg/L	0.200	ND	95.3	70-130			
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Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AK63372 - General Prep

Matrix Spike Dup (AK63372-MSD1)

Source: 16K0044-07

Prepared: 11/10/16 Analyzed: 11/11/16

Phosphorus, total	0.191	0.020	0.040	mg/L	0.200	ND	95.3	70-130	0.00	20	
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Batch AK63468 - General Preparation

Blank (AK63468-BLK1)

Prepared & Analyzed: 11/12/16

Oil & Grease (HEM)	ND	1.4	5.0	mg/L							U
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LCS (AK63468-BS1)

Prepared & Analyzed: 11/12/16

Oil & Grease (HEM)	39.4	1.4	5.0	mg/L	40.0		98.5	78-114			
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LCS Dup (AK63468-BSD1)

Prepared & Analyzed: 11/12/16

Oil & Grease (HEM)	39.6	1.4	5.0	mg/L	40.0		99.0	78-114	0.506	18	
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Matrix Spike (AK63468-MS1)

Source: 16K0051-02

Prepared & Analyzed: 11/12/16

Oil & Grease (HEM)	38.7	1.4	5.0	mg/L	40.0	3.90	87.0	78-114			
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Albuquerque NM, 87185

Project Manager: John Chavarria

Project: CA Industrial Storm Water Permit

Project Number: ST-102716

Reported:

11/16/16 11:24

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).
U	Analyte included in analysis, but not detected at or above MDL.
*	No annual NAL for pH. Instantaneous Maximum NAL <6.0 or >9.0
MDL	Method Detection Limit
NA	NAL not available
NAL	Annual Numeric Action Level
ND	Analyte NOT DETECTED at or above the detection limit
RL	Reporting Limit
RPD	Relative Percent Difference

16K0044

CHAIN OF CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sample ID	Location	S. Time	S. Date	Sample Mat'l	Analyze For	Method	# of Cont	Initials	Preservatives //Comments
ST-5-102716	Station 5	1537	10/27/16	Stormwater	Oil & Grease	EPA1664A	1 x 1L (Glass)		Preserved w/ H ₂ SO ₄ (GRAB)
ST-5-102716	"	"	"	"	TSS	SM2540D	1 x 1L		NONE (GRAB)
ST-5-102716	"	"	"	"	Zn, Fe, Al & Pb	200.7/200.8	1 x 500ml		Preserved w/ HNO ₃ (GRAB)
ST-5-102716	"	"	"	"	Nitrate+Nitrite as N	SM4500-NO3-E	1 x 1L		NONE (GRAB)
ST-5-102716	"	"	"	"	COD	SM5220D	1 x 500ml		Preserved w/ H ₂ SO ₄ (GRAB)
ST-5-102716	"	"	"	"	Total P	SM4500P	1 x 250ml		Preserved with H ₂ SO ₄ (Grab)

Alpha Analytical Laboratories, Inc. WILL BE REQUIRED TO INFORM SANDIA NATIONAL LABS CA. IF IT APPEARS THAT THE ANALYTICAL DATA IS OF LIMITED USE DUE TO THEIR LABORATORY PROCEDURES AND HANDLING OR IF THE QA DATA DOES NOT MEET EPA STANDARDS.

Project Name or ID No: ST-102716	PO#1347244	Sample Released By: <u>18P17</u>
Sampler(s) Signature: <u>[Signature]</u>	Date/Time Sample Released: <u>10/31/1700</u>	Courier Sample Received By: <u>10/31/2050</u>
Sandia Contact Name: John Chavarria	Date/Time Sample Received: <u>10/31/2050</u>	Courier Sample Released By: <u>10/31/2050</u>
Sandia Phone Number: (925) 294-3473 / FAX(925) 294-2230	Date/Time Sample Released: <u>10/31/2050</u>	Received by Lab Personnel: <u>10/31/2050</u>
Sample Released By: <u>[Signature]</u>	Date/Time Sample Received: <u>10/31/2050</u>	
Date/Time Sample Released: <u>10/28/16 1112</u>		
Sample Received By: <u>18P17</u>		
Date/Time Sample Received: <u>10/28/16 1225</u>		

Laboratory Name, Address, Phone:
 Alpha Analytical Laboratories, Inc.
 6398 Dougherty Road Suite 35
 Dublin, CA 94568 Phone (925) 828-6226 Fax (925) 828-6309

1. Specify analytical method used and detection limits
 2. Specify date
 3. Notify Sandia of anomalies or problems
 4. Provide QA/QC data along with the results
 5. Tamper resistant seals are in place (yes/no)

Please sign and return this form to: Sandia National Laboratories, Environmental Management Department, MS 9902
 P.O. Box 969, Livermore, Ca. 94551-0969

CHAIN OF CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

3.5

Sample ID	Location	S. Time	S. Date	Sample Mat'l	Analyze For	Method	# of Cont	Initials	Comments
ST-11-102716	Station 11	1553	10/27/16	Stormwater	Oil & Grease	EPA 1664A	1 x 1L (Glass)		Preserved w/ H ₂ SO ₄ (GRAB)
ST-11-102716	"	"	"	"	TSS	SM2540D	1 x 1L		NONE (GRAB)
ST-11-102716	"	"	"	"	Zn, Fe, Al & Pb	200.7/200.8	1 x 500mL		Preserved w/ HNO ₃ (GRAB)
ST-11-102716	"	"	"	"	Nitrate+Nitrite as N	SM4500- NO3-E	1 x 1L		NONE (GRAB)
ST-11-102716	"	"	"	"	COD	SM5220D	1 x 500mL		Preserved w/ H ₂ SO ₄ (GRAB)
ST-11-102716	"	"	"	"	Total P	SM4500P	1 x 250ml		Preserved w/ H ₂ SO ₄ (GRAB)

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Project Name or ID No: ST-102716 PO#1347244 Sample Released By: 1817

Sampler(s) Signature: [Signature] Date/Time Sample Released: 10/31/1700

Sandia Contact Name: John Chavarria Courier Sample Received By: 10/31/1700

Sandia Phone Number: (925) 294-3473 / FAX (925) 294-2230 Date/Time Sample Received: 10/31/2050

Sample Released By: [Signature] Date/Time Sample Released: 10/31/2050

Date/Time Sample Released: 10/28/16 1112 Received by Lab Personnel: 10/31/2050

Sample Received By: 10/28/16 1245 Date/Time Received: 10/31/2050

Date/Time Sample Received: 10/28/16 1245

Laboratory Name, Address, Phone: Alpha Analytical Laboratories, Inc.
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Dublin, CA 94568 Phone (925) 828-6226 Fax (925) 828-6309

1. Specify analytical method used and detection limits
 2. Specify date
 3. Notify Sandia of anomalies or problems
 4. Provide QA/QC data along with the results
 5. Tamper resistant seals are in place (yes/no)

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CHAIN OF CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

35

Sample ID	Location	S. Time	S. Date	Sample Mat'l	Analyze For	Method	# of Cont	Initials	Comments
ST-13-102716	Station 13	1559	10/27/16	Stormwater	Oil & Grease	EPA1664A	1 x 1L (Glass)		Preserved w/ H ₂ SO ₄ (GRAB)
ST-13-102716	"	"	"	"	TSS	SM2540D	1 x 1L		NONE (GRAB)
ST-13-102716	"	"	"	"	Zn, Fe, Al & Pb	200.7/200.8	1 x 500mL		Preserved w/ HNO ₃ (GRAB)
ST-13-102716	"	"	"	"	Nitrate+Nitrite as N	SM4500- NO3-E	1 x 1L		NONE (GRAB)
ST-13-102716	"	"	"	"	COD	SM5220D	1 x 500mL		Preserved w/ H ₂ SO ₄ (GRAB)
ST-13-102716	"	"	"	"	Total P	SM4500P	1x 250ml		Preserved w/ H ₂ SO ₄ (GRAB)

Alpha Analytical Laboratories, Inc. WILL BE REQUIRED TO INFORM SANDIA NATIONAL LABS CA. IF IT APPEARS THAT THE ANALYTICAL DATA IS OF LIMITED USE DUE TO THEIR LABORATORY PROCEDURES AND HANDLING OR IF THE QA DATA DOES NOT MEET EPA STANDARDS.

Project Name or ID No: ST-102716 **PO#1347244**
 Sampler(s) Signature: [Signature]
 Sandia Contact Name: John Chavarria
 Sandia Phone Number: (925) 294-3473 / FAX(925) 294-2230
 Sample Released By: [Signature]
 Date/Time Sample Released: 10/28/16 1112
 Sample Received By: [Signature]
 Date/Time Sample Received: 10/28/16 1245

Sample Released By: [Signature]
 Date/Time Sample Released: _____
 Courier Sample Received By: [Signature]
 Date/Time Sample Received: 10/31/1760
 Courier Sample Released By: [Signature]
 Date/Time Sample Released: 10/31/2050
 Received by Lab Personnel: [Signature]
 Date/Time Sample Received: 10/31/2050

Laboratory Name, Address, Phone:

Alpha Analytical Laboratories, Inc.
 6398 Dougherty Road Suite 35
 Dublin, CA 94568 Phone (925) 828-6226 Fax (925) 828-6309

1. Specify analytical method used and detection limits

2. Specify date

3. Notify Sandia of anomalies or problems

4. Provide QA/QC data along with the results

5. Tamper resistant seals are in place (yes/no)

Please sign and return this form to: Sandia National Laboratories, Environmental Management Department, MS 9902
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CHAIN OF CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

35

Sample ID	Location	S. Time	S. Date	Sample Mat'l	Analyze For	Method	# of Cont	Initials	Comments
ST-15-102716	Station 15	1546	10/27/16	Stormwater	Oil & Grease	EPA1664A	1 x 1L (Glass)		Preserved w/ H ₂ SO ₄ (GRAB)
ST-15-102716	"	"	"	"	TSS	SM2540D 200.7/ 200.8	1 x 1L		NONE (GRAB)
ST-15-102716	"	"	"	"	Zn, Fe, Al & Pb	SM4500- NO3-E	1 x 500mL		Preserved w/ HNO ₃ (GRAB)
ST-15-102716	"	"	"	"	Nitrate+ Nitrite as N	SM5220D	1 x 1L		NONE (GRAB)
ST-15-102716	"	"	"	"	COD	SM5220D	1 x 500mL		Preserved w/ H ₂ SO ₄ (GRAB)
ST-15-102716	"	"	"	"	Total P	SM4500P	1 x 250ml		Preserved w/ H ₂ SO ₄ (GRAB)

Alpha Analytical Laboratories, Inc. WILL BE REQUIRED TO INFORM SANDIA NATIONAL LABS CA. IF IT APPEARS THAT THE ANALYTICAL DATA IS OF LIMITED USE DUE TO THEIR LABORATORY PROCEDURES AND HANDLING OR IF THE QA DATA DOES NOT MEET EPA STANDARDS.

Project Name or ID No: ST-102716 PO#1347244 Sample Released By: [Signature]
 Sampler(s) Signature: [Signature] Date/Time Sample Released: 10/31/1700
 Sandia Contact Name: John Chavarria Courier Sample Received By: [Signature]
 Sandia Phone Number: (925) 294-3473 / FAX (925) 294-2230 Date/Time Received: 10/31/2050
 Sample Released By: [Signature] Date/Time Sample Released: 10/31/2050
 Date/Time Sample Released: 10/31/2050 Received by Lab Personnel: [Signature]
 Sample Received By: [Signature] Date/Time Received: 10/31/2050
 Date/Time Sample Received: 10/31/2050

Laboratory Name, Address, Phone:
 Alpha Analytical Laboratories, Inc.
 6398 Dougherty Road Suite 35
 Dublin, CA 94568 Phone (925) 828-6226 Fax (925) 828-6309

1. Specify analytical method used and detection limits
2. Specify date
3. Notify Sandia of anomalies or problems
4. Provide QA/QC data along with the results
5. Tamper resistant seals are in place (yes/no)

Please sign and return this form to: Sandia National Laboratories, Environmental Management Department, MS 9902
 P.O. Box 969, Livermore, Ca. 94551-0969

16K0044

3.5

CHAIN OF CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

Sample ID	Location	S. Time	S. Date	Sample Mat'l	Analyze For	Method	# of Cont	Initials	Comments
ST-20-102716	Station 20	1622	10/27/16	Stormwater	Oil & Grease	EPA1664A	1 x 1L (Glass)		Preserved w/ H ₂ SO ₄ (GRAB)
ST-20-102716	"	"	"	"	TSS	SM2540D	1 x 1L		NONE (GRAB)
ST-20-102716	"	"	"	"	Zn, Fe, Al & Pb	200.7/200.8	1 x 500mL		Preserved w/ HNO ₃ (GRAB)
ST-20-102716	"	"	"	"	Nitrate+Nitrite as N	SM4500-NO3-E	1 x 1L		NONE (GRAB)
ST-20-102716	"	"	"	"	COD	SM5220D	1 x 500mL		Preserved w/ H ₂ SO ₄ (GRAB)
ST-20-102716	"	"	"	"	Total P	SM4500P	1 x 250ml		Preserved w/ H ₂ SO ₄ (GRAB)

Alpha Analytical Laboratories, Inc. WILL BE REQUIRED TO INFORM SANDIA NATIONAL LABS CA. IF IT APPEARS THAT THE ANALYTICAL DATA IS OF LIMITED USE DUE TO THEIR LABORATORY PROCEDURES AND HANDLING OR IF THE QA DATA DOES NOT MEET EPA STANDARDS.

Project Name or ID No: ST-102716 PO#1347244 Sample Released By: [Signature]

Sampler(s) Signature: [Signature] Date/Time Sample Released: _____

Sandia Contact Name: John Chavarria Courier Sample Received By: [Signature]

Sandia Phone Number: (925) 294-3473 / FAX (925) 294-2230 Date/Time Received: 10/31/1700

Sample Released By: [Signature] Date/Time Sample Released: 10/31/2050

Date/Time Sample Released: 10/28/16 1112 Received by Lab Personnel: [Signature]

Sample Received By: [Signature] Date/Time Received: 10/31/2050

Date/Time Sample Received: 10/28/16 1225

Laboratory Name, Address, Phone: _____

Alpha Analytical Laboratories, Inc. _____

6398 Dougherty Road Suite 35 _____

Dublin, CA 94568 Phone (925) 828-6226 Fax (925) 828-6309 _____

1. Specify analytical method used and detection limits
2. Specify date
3. Notify Sandia of anomalies or problems
4. Provide QA/QC data along with the results
5. Tamper resistant seals are in place (yes/no)

Please sign and return this form to: Sandia National Laboratories, Environmental Management Department, MS 9902
P.O. Box 969, Livermore, Ca. 94551-0969

CHAIN OF CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

16K0044

3.5

Sample ID	Location	S. Time	S. Date	Sample Mat'l	Analyze For	Method	# of Cont	Initials	Comments
ST-Q-102716	Station Q	1559	10/27/16	Stormwater	Zn, Fe, Al & Pb	200.7/ 200.8	1 x 500ml		Preserved w/ HNO ₃ (GRAB)
ST-Q-102716	"	"	"	"	Nitrate+Nitrite as N	SM4500- NO3-E	1 x 1L		NONE (GRAB)
ST-Q-102716	"	"	"	"	TSS	SM2540D	1 x 1L		NONE (GRAB)
ST-Q-102716	"	"	"	"	Oil & Grease	413.1	1 x 1L		Preserved w/ H ₂ SO ₄ (GRAB)
ST-Q-102716	"	"	"	"	COD	SM5220D	1 x 500ml		Preserved w/ H ₂ SO ₄ (GRAB)
ST-Q-102716	"	"	"	"	Total P	SM4500P	1 x 250ml		Preserved w/ H ₂ SO ₄ (GRAB)

Alpha Analytical Laboratories, Inc. WILL BE REQUIRED TO INFORM SANDIA NATIONAL LABS CA. IF IT APPEARS THAT THE ANALYTICAL DATA IS OF LIMITED USE DUE TO THEIR LABORATORY PROCEDURES AND HANDLING OR IF THE QA DATA DOES NOT MEET EPA STANDARDS.

Project Name or ID No: ST-102716 PO#1347244 Sample Released By: PPG

Sampler(s) Signature: [Signature] Date/Time Sample Released: _____

Sandia Contact Name: John Chavarria Courier Sample Received By: GN

Sandia Phone Number: (925) 294-3473 / FAX(925) 294-2230 Date/Time Sample Received: 10/31/17

Sample Released By: [Signature] Date/Time Sample Released: 10/31/2016

Date/Time Sample Released: 10/31/16 Date/Time Sample Received: 10/31/17

Sample Received By: PPG Date/Time Sample Received: 10/31/17

Date/Time Sample Received: 10/31/17

Laboratory Name, Address, Phone: _____

Alpha Analytical Laboratories, Inc. _____

6398 Dougherty Road Suite 35 _____

Dublin, CA 94568 Phone (925) 828-6226 Fax (925) 828-6309 _____

1. Specify analytical method used and detection limits _____

2. Specify date _____

3. Notify Sandia of anomalies or problems _____

4. Provide QA/QC data along with the results _____

5. Tamper resistant seals are in place (yes/no) _____

Please sign and return this form to: Sandia National Laboratories, Environmental Management Department, MS 9902
P.O. Box 969, Livermore, Ca. 94551-0969

CHAIN OF CUSTODY RECORD AND ANALYTIC INSTRUCTIONS

16K0044

35

Sample ID	Location	S. Time	S. Date	Sample Mat'l	Analyze For	Method	# of Cont	Initials	Comments
ST-R-102716	Station R	1559	10/27/16	Stormwater	Zn, Fe, Al & Pb	200.7/ 200.8	1 x 500ml		Preserved w/ HNO ₃ (GRAB)
ST-R-102716	"	"	"	"	Nitrate+Nitrite as N	SM4500- NO3-E	1 x 1L		NONE (GRAB)
ST-R-102716	"	"	"	"	TSS	SM2540D	1 x 1L		NONE (GRAB)
ST-R-102716	"	"	"	"	Oil & Grease	413.1	1 x 1L		Preserved w/ H ₂ SO ₄ (GRAB)
ST-R-102716	"	"	"	"	COD	SM5220D	1 x 500ml		Preserved w/ H ₂ SO ₄ (GRAB)
ST-R-102716	"	"	"	"	Total P	SM4500P	1 x 250ml		Preserved w/ H ₂ SO ₄ (GRAB)

Alpha Analytical Laboratories, Inc. WILL BE REQUIRED TO INFORM SANDIA NATIONAL LABS CA. IF IT APPEARS THAT THE ANALYTICAL DATA IS OF LIMITED USE DUE TO THEIR LABORATORY PROCEDURES AND HANDLING OR IF THE QA DATA DOES NOT MEET EPA STANDARDS.

Project Name or ID No: ST-102716 PO#1347244
 Sampler(s) Signature: *[Signature]*
 Sandia Contact Name: John Chavarria
 Sandia Phone Number: (925) 294-3473 / FAX (925) 294-2230
 Sample Released By: *[Signature]*
 Date/Time Sample Released: 10/28/16 1112
 Sample Received By: *[Signature]*
 Date/Time Sample Received: 10/28/16 1345

Sample Released By: *[Signature]*
 Date/Time Sample Released: _____
 Courier Sample Received By: *[Signature]*
 Date/Time Received: 10/31/1700
 Courier Sample Released By: *[Signature]*
 Date/Time Sample Released: 10/31/2050
 Received by Lab Personnel: *[Signature]*
 Date/Time Received: 10/31/2050

Laboratory Name, Address, Phone:

Alpha Analytical Laboratories, Inc.

6398 Dougherty Road Suite 35

Dublin, CA 94568 Phone (925) 828-6226 Fax (925) 828-6309

1. Specify analytical method used and detection limits
2. Specify date
3. Notify Sandia of anomalies or problems
4. Provide QA/QC data along with the results
5. Tamper resistant seals are in place (yes/no)

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